

Figures

Figure 1: A vertical column of text, likely a page number or identifier, oriented vertically.

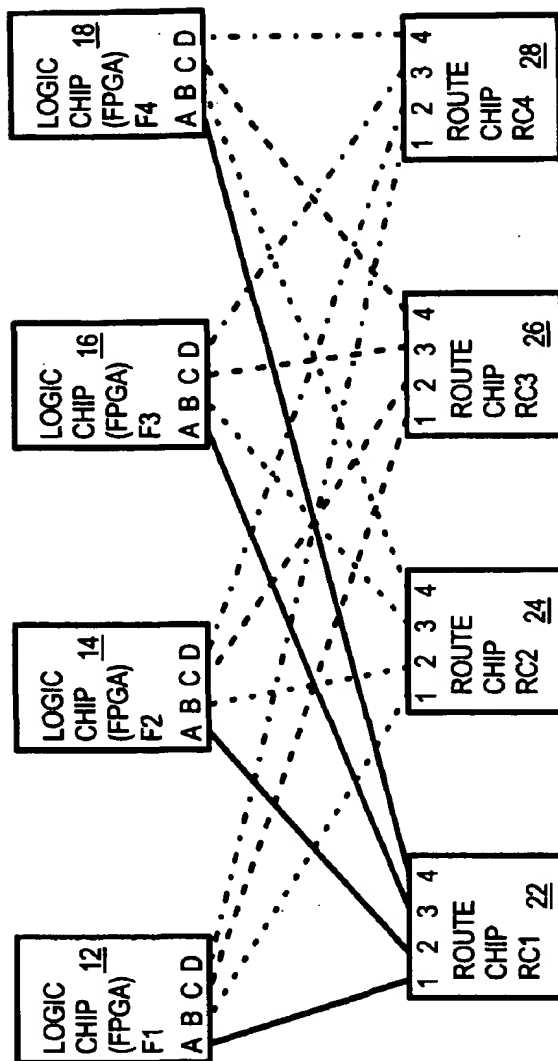


FIG. 1

PRIOR ART

	PIN A	PIN B	PIN C	PIN D
FPGA - F1	RC1	RC2	RC3	RC4
FPGA - F2	RC1	RC2	RC3	RC4
FPGA - F3	RC1	RC2	RC3	RC4
FPGA - F4	RC1	RC2	RC3	RC4

FIG. 2
PRIOR ART

	PIN A	PIN B	PIN C	PIN D
FPGA - F1		X2-RC2	X3-RC3	
FPGA - F2	X1-RC1			X4-RC4
FPGA - F3	X1-RC1	X2-RC2	X3-RC3	X4-RC4
FPGA - F4				

X5 X6
X5 X6

FIG. 3
PRIOR ART

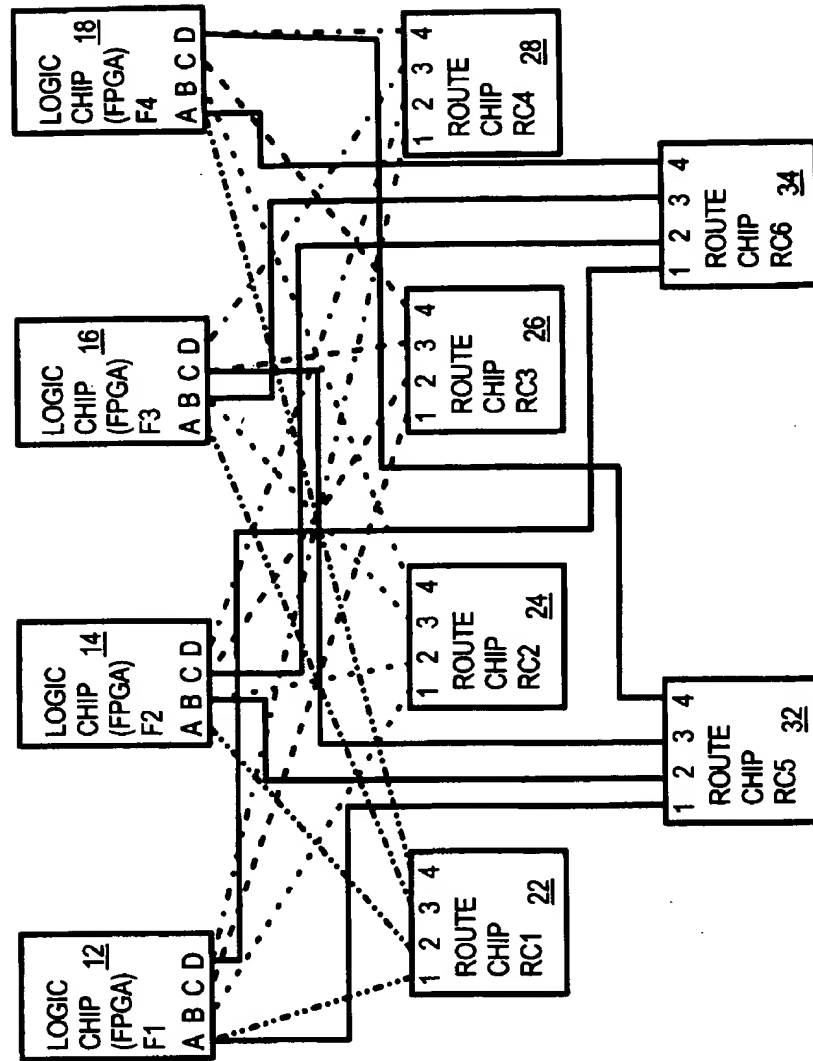


FIG. 4

	PIN A	PIN B	PIN C	PIN D
FPGA - F1	RC1	RC2	RC3	RC4
FPGA - F2	RC1	RC2	RC3	RC4
FPGA - F3	RC1	RC2	RC3	RC4
FPGA - F4	RC1	RC2	RC3	RC4

FIG. 5A

FIG. 5B

	PIN A	PIN B	PIN C	PIN D
FPGA - F1	X5	X2-RC2	X3-RC3	X6
FPGA - F2	X1-RC1	X5	X6	X4-RC4
FPGA - F3	X1-RC1	X2-RC2	X3-RC3	X4-RC4
FPGA - F4				

FIG. 6

FIG. 7

	PIN A	PIN B	PIN C	PIN D
FPGA - F1	X1	X2	X5	X4
FPGA - F2	X1		X5	X6
FPGA - F3	X3	X2		X6
FPGA - F4	X3			X4

X1: F1-F2
X2: F1-F3
X3: F3-F4
X4: F1-F4
X5: F1-F2
X6: F2-F3
X7: F2-F3

PRIOR ART

FIG. 8

	PIN A	PIN B	PIN C	PIN D
FPGA - F1	X1	X2	X5	X4
FPGA - F2	X1	X7	X5	X6
FPGA - F3	X3	X2	X7	X6
FPGA - F4	X3			X4

FIG. 9
PRIOR ART

	PIN A	PIN B	PIN C	PIN D
FPGA - F1		X4	X3	X6
FPGA - F2	X2		X3	X1
FPGA - F3	X2	X4	X5	X1
FPGA - F4			X5	X6

X1: F2-F3
X2: F2-F3
X3: F1-F2
X4: F1-F3
X5: F3-F4
X6: F1-F4
X7: F1-F2

FIG. 10

	PIN A	PIN B	PIN C	PIN D
FPGA - F1	X7	X4	X3	X6
FPGA - F2	X2	X7	X3	X1
FPGA - F3	X2	X4	X5	X1
FPGA - F4			X5	X6

<u>ORIGINAL</u>	<u>SHUFFLED</u>	PIN A	PIN B	PIN C	PIN D
X1: F1-F3	X1: F1-F3		X2	X1	X3
X2: F1-F4	X2: F1-F4		X4		
X3: F2-F3	X3: F1-F3		X4		
X4: F3-F4	X4: F2-F3	X5	X4	X1	X3
X5: F2-F3	X5: F3-F4	X5	X2		
X6: F1-F4	X6: F1-F4				

FIG. 11

PRIOR ART

PIN A	PIN B	PIN C	PIN D
X6	X2	X1	X3
	X4		
X5	X4	X1	X3
X5	X2		X6

FIG. 12

X1: F4-F5
 X2: F4-F5
 X3: F2-F5
 X4: F4-F5
 X5: F4-F5
 X6: F2-F5
 X7: F2-F5
 X8: F2-F5
 X9: F2-F4
 X10: F2-F4
 X11: F2-F4
 X12: F2-F4

FIG. 13

PRIOR ART

	A	B	C	D	E	F	G	H
FPGA - F1								
FPGA - F2					X3	X6	X7	X8
FPGA - F3								
FPGA - F4	X1	X2	X5	X4				
FPGA - F5	X1	X2	X5	X4	X3	X6	X7	X8
FPGA - F6								
FPGA - F7								
FPGA - F8								

X9,10,11,12

X9,10,11,12

X1: F4-F5
X2: F4-F5
X3: F2-F5
X4: F4-F5
X5: F4-F5
X6: F2-F5
X7: F2-F5
X8: F2-F5
X9: F2-F4
X10: F2-F4
X11: F2-F4
X12: F2-F4

FIG. 14

	A	B	C	D	E	F	G	H
FPGA - F1								
FPGA - F2	X7	X9	X10	X3	X6	X11	X12	X8
FPGA - F3								
FPGA - F4	X10	X2	X4	X9	X12	X5	X1	X11
FPGA - F5	X7	X2	X4	X3	X6	X5	X1	X8
FPGA - F6								
FPGA - F7								
FPGA - F8								

FIG. 15

	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15	R16
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
FPGA - F1	R17			R18	R19			R20	R21			R22	R23			R24
FPGA - F2																
FPGA - F3																
FPGA - F4	R18			R17	R20			R19	R22			R21	R24			R23
FPGA - F5	R17			R18	R19			R20	R21			R22	R23			R24
FPGA - F6																
FPGA - F7																
FPGA - F8	R18			R17	R20			R19	R22			R21	R24			R23
FPGA - F9	R17			R18	R19			R20	R21			R22	R23			R24
FPGA - F10																
FPGA - F11																
FPGA - F12	R18			R17	R20			R19	R22			R21	R24			R23
FPGA - F13	R17			R18	R19			R20	R21			R22	R23			R24
FPGA - F14																
FPGA - F15																
FPGA - F16	R18			R17	R20			R19	R22			R21	R24			R23